

Moving Space

For The Next-gen Mobility-as-a-Service Experience





PIX builds smart vehicle MovingSpace to reshape the way people live, work and entertain. With flexible architecture and modular design, MovingSpace is adaptable to suit a wide range of robo-vehicle applications: unattended vending car, mobile office, self-driving hotel, autonomous delivery, moving karaoke and more moving space possibilities. Currently PIX products have expanded to 20+ countries around the world and the company is growing rapidly.

The smart mobility ecosystem powered by the propriety MovingSpace is driving the third generation of automotive revolution: Moving Space. PIX Moving envisions autonomous driving technology from the city perspective. While many other autonomous driving startups are focusing on transporting people from point A to B, PIX is thinking to bring autonomous-mobility-powered services to people. Taco trucks, coffee machines, and photo booths will all become autonomously routed and freely moving parts of cities.



MovingSpace

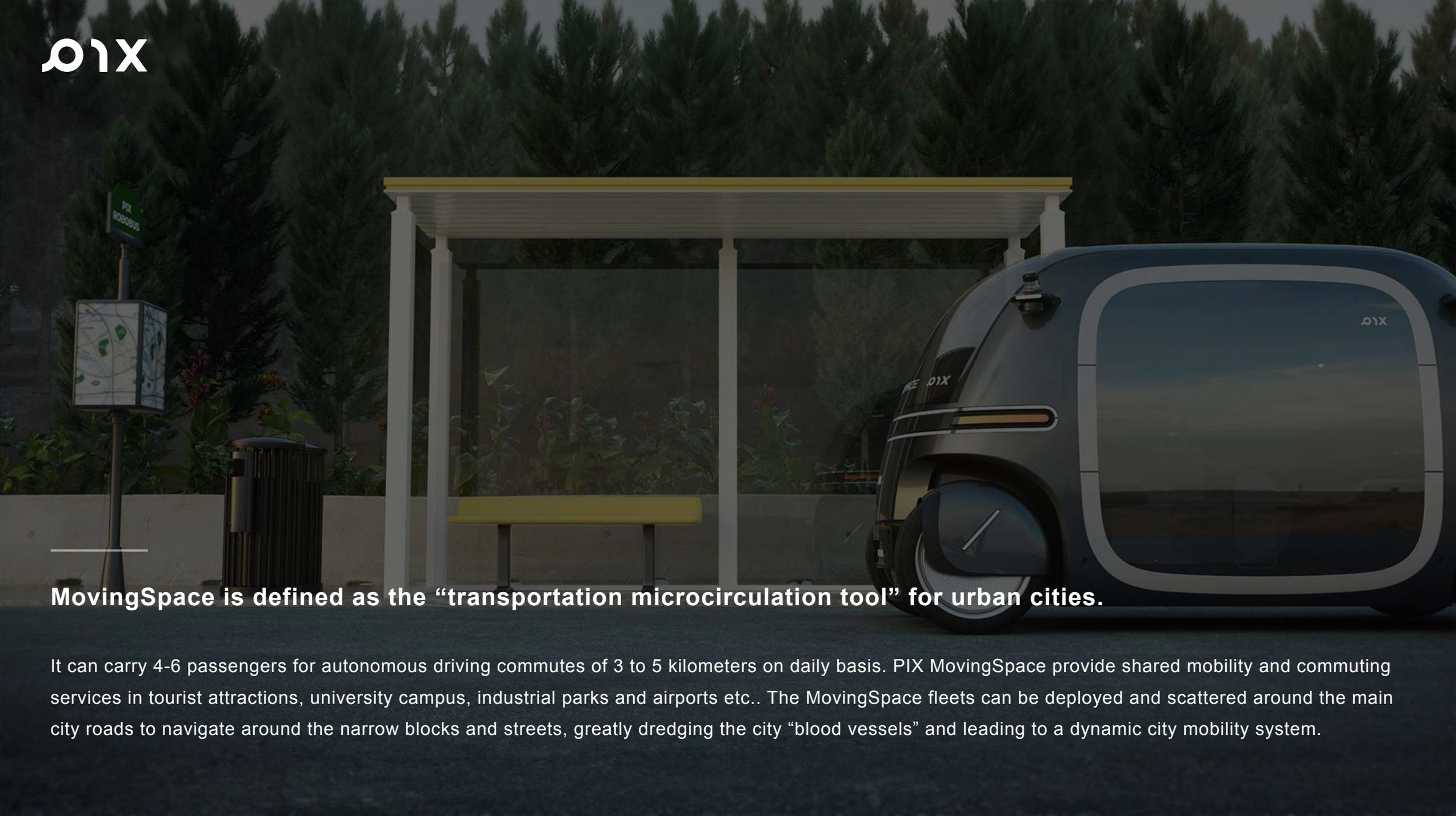
Smarter and More Efficient Short-distance Commutes

PIX Moving is providing city dwellers with the diversified shared mobility experiences, making Moving Space a new lifestyle

Equipped with autonomy control system, PIX MovingSpace supports L4 autonomous driving. The high-performance skateboard chassis and full-stack sensor deployment are designed for driving safety. Panoramic glass roof enables a broader view, which allows more interactions between the passengers and the outer world, making the journey more fun and extraordinary

Modular design and open interface of MovingSpace are adding more possibilities to the space inside. How about a cozy moving lounge on your way to work? Life on the wheels is around the corner: hail your personalized fourth space with a press of button.



The background image shows a futuristic, dark-colored autonomous vehicle with a large, rounded window and a yellow bench at a bus stop. The bus stop has a yellow roof and white pillars. A sign on the bus stop reads 'PIX ROBUBUS'. The scene is set against a backdrop of tall, dark evergreen trees.

MovingSpace is defined as the “transportation microcirculation tool” for urban cities.

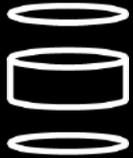
It can carry 4-6 passengers for autonomous driving commutes of 3 to 5 kilometers on daily basis. PIX MovingSpace provide shared mobility and commuting services in tourist attractions, university campus, industrial parks and airports etc.. The MovingSpace fleets can be deployed and scattered around the main city roads to navigate around the narrow blocks and streets, greatly dredging the city “blood vessels” and leading to a dynamic city mobility system.

oix



High-performance
Drive-by-wire
Chassis Platform

Reliable, all-purpose and
extensible
Customizable pod interiors on the
chassis



Modular Mounting
Brackets For
Sensors

Suitable for various sensors
and cameras



Open Interfaces

Supporting the secondary
development on
autonomous functions



For Multiple
Scenarios

Adjustable configuration and
technical solution based on
different scenarios





Urban Organism

With a sleek and harmonious design aesthetic, PIX MovingSpace is revealing a futuristic and eye-pleasing appearance

Taking into consideration of the human perceptions, PIX MovingSpace is creating a safe and comfortable travel experience

- **Modular Mounting Brackets For Sensors**

To accommodate diverse sensor deployment requirements from users

- **Bi-directional Design**

A flexible shuttle for different scenarios



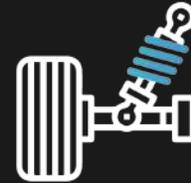
Basic Parameters

Top Speed



35KM/h

Maximum Load



700KG

Maximum
Gradeability



20%

Driving Range



**120KM
160KM**

Passengers
Allowed



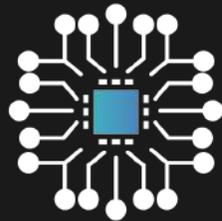
**Passengers
Allowed**

Open Interfaces



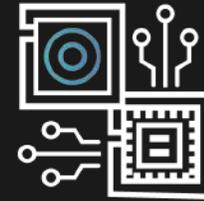
3-Channel CAN Interfaces

CAN protocols and DBC file are provided
3-level CAN communication architecture for more
reliable data transmission



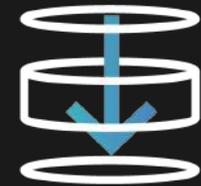
Advanced Mode Control Interface

Each actuator can be individually controlled



Electrical Architecture

Diverse power supply interfaces (1kw) to meet
the development demands of autonomous
driving: Five 12V ports Two 24V ports
(Power and number of ports can be customized)



Modular Sensor Deployment

Modular Mounting Brackets
Sensor installation and calibration services are
provided



Safety design

Dual redundant design to ensure safe and effective braking

Braking System

Brake system type

Automotive-grade electro-hydraulic dual-circuit braking system (EHB)

Control mode

Target pressure closed-loop control (resolution 1bar)

Safety design

Dual redundant design to ensure safe and effective braking

Braking system performance

Effective pressure build-up range: 0-100bar
Pressure control error: 1bar
System delay: $\leq 90\text{ms}$
Maximum pressure build-up time: $\leq 300\text{ms}$

Repeated consistency of pressure distribution in the pressure range of $\pm 5\%$

Steering System

Steering system type

Automotive-grade dual gear DP-EPS

Control mode

Steering wheel angle and angular velocity closed-loop control (resolution $\leq 1^\circ$)

Mode switch

Active switching between assistance mode and autonomous driving mode

Steering system performance

Steering delay: $\leq 150\text{ms}$
Steering steady state error: 1°
Steering dynamic overshoot $\leq 15^\circ$
Inner/outer corners $30^\circ/27^\circ$

Drive Mode

Drive mode

Four-wheel independent drive

Control mode

Speed or torque control mode (resolution 0.1km/h/1Nm)

Braking system performance

Control accuracy: 0~10N.m, the control accuracy is $\pm 2\text{N.m}$
The control accuracy above 10N.m is $\pm 5\%$
The peak torque response time does not exceed 0.3s, the system response time is less than 150ms.

Rated torque: 9.55N.m; Max. torque: 35N.m
Rated speed: 3000rpm; Max. speed: 6000rpm
Rated power: 3kW; Max. power: 6kW







Modular Mounting Brackets For Sensors
Suitable for most sensors deployment demands



LED Screen
Supporting customizable contents display

Sleek Electric Sliding Door
Automatic opening and closing for smart interaction



Modes Of Control

Control Modes

Autonomous driving mode; Remote control mode
Remote driving (via cloud scheduling platform); Safety driver driving (optional)

Emergency Stop

Built-in emergency stop button inside the cabin
Remote emergency stop button (emergency stop on the remote control; emergency stop in the cloud scheduling system)

Drive-by-wire Drive Interface

Speed, torque control interface; acceleration interface (gear + acceleration value)
Advanced control interface (each actuator can be controlled separately)

Steer-by-wire

Electronic parking EPS; Steering angle control (angle command + angular speed command)

Brake-by-wire

Electro-hydraulic brake (EHB); EPB Electronic parking; Target pressure control

Priority setting

Emergency control or built-in emergency stop > remote driving control > autonomous driving

Communication Protocol

500kbps autonomous driving

Motor Type

Wheel motor

Electrical Control

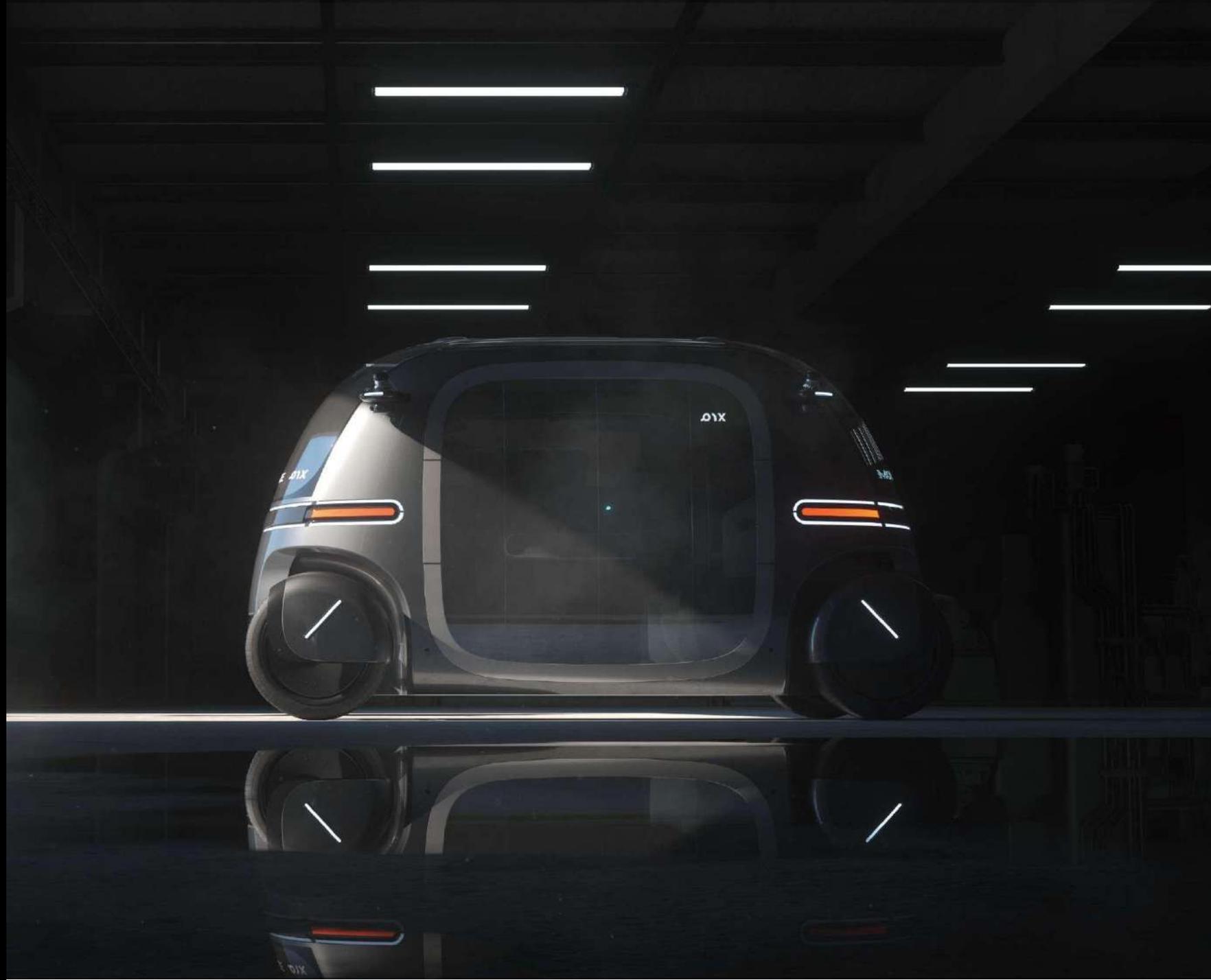
CAN2.0 communication protocol matrix and DBC file are provided

Communication Interface

CAN communication protocol; DBC

CAN Port Connector Type

DB9





”Your Space”

One-of-a-kind smart mobility experience for the new lifestyle on the “wheels”



Reading Lights



Interactive Screen



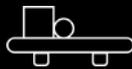
Air Conditioning



Seat Belts



Safety Hammer



Convenient Shelf



OX



4-wheel differential steering to navigate through narrow roads

Minimum turning radius 4.5m



4-wheel synchronized steering for better parking experience

Parallel steering



Rebuild The City
With Autonomous Mobility.

PIX

Toward the light

The personal moving space
Towards future mobility

PIX MovingSpace transforms into a "night punk" with its interactive lighting system after sunset, ensuring safety for the rides at night



Welcome Aboard

Welcome Aboard to the Next-gen Smart Mobility

- Full-glass side door and transparent roof design enable a broader view and a spacious experience
- PIX Moving is providing city dwellers with diversified shared mobility experience, making Moving Space a new lifestyle

WELCOME

PIX

PIX

Connecting With The World

PIX MovingSpace is designed for people to interact with the world, instead of being isolated by the vehicle itself. Commutes, entertaining and city are all mingling together to form a dynamic lifestyle for passengers, riders, and dwellers.

PIX MOVING

Open Creation

A tailored space with more personalities
Custom exterior painting options

Color palette, city icon, artists co-branding, creation from creators and more possibilities

Interior Customization
Private or open

Hardcore tech or cozy home style
Minimalist design or interdisciplinary elements



PIX Moving Space

Join PIXCITY to explore more prospects of the smart tech application in future cities

“Daily commute is no longer a boring programmed route, but a moving space where you can enjoy a dedicated piece of life: sipping coffee on the mobile cafe, reading a beloved book on the on-demand bookstore vehicle, taking a nap on the lounge car, or watching movie in the autonomous theater, even working out in the mobile gym on your way back home.”

Join Us

In the Greatest City Revolution
in 100 years



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